

ABSTRACT

A composite core nonlinear reactor comprising a first core member made of a high-magnetic-permeability material and forming a continuous annular magnetic path; 5 a second core member made of a high-magnetic-permeability material and forming an annular magnetic path locally broken by an interstice; a magnetic shielding plate made of a low-magnetic-permeability material having high electric conductivity and high heat conductivity, the 10 magnetic shielding plate being integrally sandwiched between the first core member and the second core member; and a coil, wherein the annular magnetic path of the first core member and the annular magnetic path of the second 15 core member are juxtaposed sandwiching the magnetic shielding plate, the coil being wound such that the coil commonly crosses consecutively both of the annular magnetic path.